Date: Tue, 10 May 94 15:59:31 PDT

From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>

Errors-To: Info-Hams-Errors@UCSD.Edu

Reply-To: Info-Hams@UCSD.Edu

Precedence: Bulk

Subject: Info-Hams Digest V94 #509

To: Info-Hams

Info-Hams Digest Tue, 10 May 94 Volume 94 : Issue 509

Today's Topics:

Alternate power

Amateur Radio and Civil Rights
A new type of ham radio club / station
ARLD027 P5RS7 update
ARLP018 Propagation de KT7H

CD-ROM Buck vs. QRZ

FCC agents to get new equipment to find problem radio signals

HDN Releases

Index Technology QRP Rig Licencing cost

Non-existent ham software that should nude amateur radio nets (2 msgs) personal autopatch calls RS SW wanted

Slow speed CW net?
WANTED IC-1275
Willful Interference

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu> Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu> Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 9 May 1994 16:06:59 GMT

From: ihnp4.ucsd.edu!news.cerf.net!innsrv.sce.com!usenet@network.ucsd.edu

Subject: Alternate power To: info-hams@ucsd.edu

This is perhaps a question that has been answered in the past here on the net

if that's the case, sorry for asking again....

I am considering running my station at home with battery-backed power. I have several sealed lead-acid batteries in the 20Ah range that could handle the load. I also have a Astron 30a supply that currently handles the load (no pun intended). I'm wondering what is the best way to connect both the batteries and the supply so that the batteries receive the right charge current and also take over when the power supply goes off. Can anyone point me to a article or FAQ along these lines?

Thanks, scurrie

Date: Mon, 9 May 1994 16:46:08 GMT

From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!

grady@network.ucsd.edu

Subject: Amateur Radio and Civil Rights

To: info-hams@ucsd.edu

I already own my assault radios: Icom-735 with 100khz-30Mhz xmit mod and several Icom-W2A's with extended xmit mods for VHF and UHF.

And if that weren't enough, I own a Pro2006 with a clipped diode...

Too bad these are now illegal radios as of April 26th -- the date of the assault radio ban.

Well, we still have strong cryptography. Get your copy of PGP at berkeley.soda.edu /pub/cypherpunks before it becomes assault data manipulation.

- -

Grady Ward +1 707 826 7715 grady@netcom.com

Date: Mon, 9 May 1994 17:40:07 GMT

From: ihnp4.ucsd.edu!swrinde!gatech!darwin.sura.net!rsg1.er.usgs.gov!

dgg.cr.usgs.gov!bodoh@network.ucsd.edu

Subject: A new type of ham radio club / station

To: info-hams@ucsd.edu

In article <2qg1o5\$j18@Mercury.mcs.com>, svb@MCS.COM (Stephan Bechtolsheim)
writes:

> I would like to run the following idea of starting a top-notch

|> ham radio club by the net community.

```
|>
    - maximum of around 10 members.
    - $50 to $75 / month membership. With 10 members that
|>
|>
        amounts to a 'club income' of $6000 - $9000 a year.
|>
    - Nice and heafty sign up fee of, let's say, $300.
|>
|>
    - Buy / rent some room somewhere.
|>
    - Every member would have a key to that room.
|>
    - This room would be filled with state-of-the-art
|>
      equipment:
|>
      1. REAL good and big antennas (theory: if the last
|>
        storm didn't blow them down, they were not high
        enough). Like how about a 120 foot tower.
|>
|>
      2. Nice low band rig with all the goodies, like
        amplifier, filters, RTTY, AMTOR, ...
|>
|>...
> Or to summarize: we would build the worlds best ham radio
|> station.
|>
I am not interested in joining, but I would be willing to rent out my basement
and keep an eye on the equipment...;-)
+ Tom Bodoh - Sr. systems software engineer, Hughes STX, NOYGT
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198
                                                  (605) 594-6830
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)
    "Welcome back my friends to the show that never ends!" EL&P
Date: Mon, 9 May 1994 08:25:15 MDT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!
ve6mgs!usenet@network.ucsd.edu
Subject: ARLD027 P5RS7 update
To: info-hams@ucsd.edu
SB DX @ ARL $ARLD027
ARLD027 P5RS7 Update
ZCZC AE25
OST de W1AW
DX Bulletin 27 ARLD027
```

|>

>From ARRL Headquarters
Newington CT May 6, 1994
To all radio amateurs

SB DX ARL ARLD027 ARLD027 P5RS7 Update

P5RS7 Update

Further Documentation has been received from the P5RS7 operation. It has been sent for translation from the original Korean. When the document is translated, we will begin our investigation into other aspects of this operation. Cards should NOT be sent to the DXCC Desk at this time.

NNNN /EX

Date: Mon, 9 May 1994 08:26:54 MDT

From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!

ve6mgs!usenet@network.ucsd.edu

Subject: ARLP018 Propagation de KT7H

To: info-hams@ucsd.edu

SB PROP @ ARL \$ARLP018 ARLP018 Propagation de KT7H

ZCZC AP32 QST de W1AW Propagation Forecast Bulletin 18 ARLP018 >From Tad Cook, KT7H Seattle, WA May 6, 1994 To all radio amateurs

SB PROP ARL ARLP018
ARLP018 Propagation de KT7H

Conditions were fairly good until May 1, when the previously predicted cycle of disturbances from a coronal hole began again. Solar flux was down a bit relative to the previous week.

Poor conditions should continue until the middle of May, when geomagnetic activity should finally quiet down again. Solar flux will be rising until a peak around May 19 near 100. Flux should decrease again, with disturbances returning by the end of the month for another cycle of high K indices.

Sunspot Numbers from April 28 through May 4 were 35, 16, 38, 80, 75, 52 and 38, with a mean of 47.7. 10.7 cm flux was 77.3, 77.8, 74.9, 75.2, 75.9, 74.4 and 73.1, with a mean of 75.5.

The projection for this week is from Larsen Bay, Alaska, on Kodiak Island, to New Zealand.

80 meters should be open from 0000 to 1500z, and 40 meters from 0630 to 1530. Check 30 meters from 0530 to 1600, and 20 meters from 0430 to 0700. 17 meters should be open from 0300 to 0430, and on same days as late as 0600. 10, 12 and 15 meters do not look good at this time. All of this assumes that geomagnetic conditions are not terribly stormy, which tends to create problems for propagation in the higher latitudes.

/EX

Date: 10 May 94 18:18:28 GMT

From: agate!howland.reston.ans.net!usc!nic-nac.CSU.net!csulb.edu!

paris.ics.uci.edu!news.claremont.edu!kaiwan.com!not-for-mail@ucbvax.berkeley.edu

Subject: CD-ROM Buck vs. QRZ

To: info-hams@ucsd.edu

QRZ will have more shareware and related information files.

Buckmaster has quite a bit more DATABASE information (US/International Callbook .. FM/AM/TV Commerical Freq Info)

So it depends on what you are going to use it for. The one thing I didn't like about the Buckmaster was the interface for accessing the different databases. So it has forced me to write a no-nonsense (MANY TIMES FASTER/IN C/COMPILED FOR SPEED) search utility for ALL the databases they offer on the CDROM.

I think Buckmaster should consider dumping the shareware portion of the CD and provide an even more extensive database of information. This seems to be their strong point.

- -

[John W Herndon : One Stop Tech Shop BBS (310) 421-6766 / USR 14.4K DS] [<jwh@kaiwan.com> : Ham Radio / SWL / Scanners / Computer Aided Design] : 3 CD-ROMS Online and still growing! Call & Explore!]

Date: 10 May 94 15:41:56 GMT

From: sdd.hp.com!cs.utexas.edu!news.tamu.edu!furuta@hplabs.hpl.hp.com Subject: FCC agents to get new equipment to find problem radio signals

To: info-hams@ucsd.edu

In article <wa2iseCpKpwI.8I8@netcom.com>,
Robert Casey <wa2ise@netcom.com> wrote:
>copied from packet:

>

>From: W7LD@VE7DIE

>To: FCC@USA

>Subject: NEW ELECTRONICS FOR FCC AGENTS

>

Here is an interesting Bulletin from the AP NEWS SERVICE:

> >

> The Federal Communications Commission on Friday, May 6th, 1994 >showed off a car equipped with two computers, a color printer, complete >with a satellite receiver in the trunk. This car when driven through >cities and neighborhoods can detect unlicensd radiosignls and signals >that cause malicious interference.

[...]

>

> Inside each car is a Control Station between the driver and the >rear seats. It features a Mobile Phone, a Computer Keyboard, and Two >Small Screens: one for computer commands and one for the display of maps >and other information.

I had a question about these vehicles, if anyone knows more details. About a year and a half or two years ago when I still lived in Maryland, I parked next to a car in the Montgomery Village mall out in Gaithersburg, MD, that was heavily loaded with this kind of electronics. The car was pretty nondescript---some kind of sub-compact Fiesta-like car, but between the driver's and passenger's seats was a support containing a stack of equipment---I think two video monitors, radios, etc. The thing that attracted my attention to the car was that they had left a communications radio on and it was blaring out.

Gaithersburg is pretty close to DC. The question I have is if anyone knows whether the FCC was prototyping these cars and if so if the car I saw was related somehow to this.

Thanks.

KE3IV

Date: Thu, 05 May 1994 00:09:15 From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!seas.smu.edu!rwsys!ocitor! FredGate@network.ucsd.edu Subject: HDN Releases To: info-hams@ucsd.edu The following files were processed Wednesday 5-4-94: HAMANT [HAM: Antenna design and calculation programs] ______ ANTPLOT.ZIP (331257 bytes) Side-tower mounted antenna pattern prediction program v5.3, by Antenna PATPLOT3.ZIP (64345 bytes) Antenna patterm plotting program, by Antenna Specialists 395602 bytes in 2 file(s) HAMLOG [HAM: Amateur radio logging programs] ______ CHKSTATE.ZIP (20722 bytes) CT post process w/HamBase to verify State, by Peter Jennings, AB6WM FD1200.ZIP (99991 bytes) Field Day Logging program, by KM3D MASTER.ZIP (186818 bytes) CT super check partial file for DX in ARRL contest, by Peter Jennings, PA1200D.ZIP (103951 bytes) Pa QSO Party Contest Log by KM3D 411482 bytes in 4 file(s) HAMNEWS [HAM: Bulletins and Newsletters] ______ 10MTRFM.ZIP (13207 bytes) World-Wide 10 meter FM repeater list, by DL5SAF ARLB040.ZIP (2977 bytes) 04/27/94 - Bill to Support PRB-1 ARLD024.ZIP (2957 bytes) 04/27/94 ZS0, 1, 9 deleted ARLD025.ZIP (5220 bytes) 04/28/94 DX News ARLP017.ZIP (3495 bytes) ARRL Propagation Bulletin 04/29/94

PR93-85.ZIP (5204 bytes) FCC PR93-85 redefines term

"REPEATER", by Tom Blackwell, N5GAR

```
HAMSAT [ HAM: Satellite tracking and finding programs ]

ARLS021.ZIP ( 3266 bytes) 04/26/94 - Another SAREX success
ARLS022.ZIP ( 3194 bytes) 04/26/94 - Astronauts at HamVention

6460 bytes in 2 file(s)

HAMTRAIN [ HAM: Amateur Radio training material and cw progs ]

PED411I.ZIPS ( 62806 bytes) CW contest training program

62806 bytes in 1 file(s)

Total of 909410 bytes in 15 file(s)
```

Files are available via Anonymous-FTP from ftp.fidonet.org IP NET address 140.98.2.1 for seven days. They are mirrored to ftp.halcyon.com and are available for 60-90 days.

Directories are:

```
pub/fidonet/ham/hamnews (Bulletins)
              /hamant
                        (Antennas)
              /hamsat (Sat. prg/Amsat Bulletins)
              /hampack (Packet)
              /hamelec (Formulas)
              /hamtrain (Training Material)
              /hamlog (Logging Programs)
              /hamcomm (APLink/JvFax/Rtty/etc)
              /hammods (Equip modification)
              /hamswl (SWBC Skeds/Frequencies)
              /hamscan (Scanner Frequencies)
              /hamutil (Operating aids/utils)
              /hamsrc (Source code to programs)
              /hamdemo (Demos of new ham software)
                        (TCP/IP and NOS related software)
              /hamnos
```

Files may be downloaded via land-line at (214) 226-1181 or (214) 226-1182. 1.2 to 16.8K, 23 hours a day .

When ask for Full Name, enter: Guest; guest <return>

lee - ab5sm Ham Distribution Net

* Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)

Date: 10 May 94 14:00:05 GMT

From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net

Subject: Index Technology QRP Rig

To: info-hams@ucsd.edu

Saw the Index Technology QRP rig at Dayton at the G-QRP booth. This looks like one hell of a neat rig for only \$595 (all bands, 5 watts, digital display, keyer, SSB & CW, etc.). Ordered one and asked them not to ship it until 5/23. Anybody out there have any real experience with the rig?

Date: Mon, 9 May 94 15:50:46 GMT

From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!

adec23!mark@network.ucsd.edu

Subject: Licencing cost To: info-hams@ucsd.edu

jgrubs@voxbox.norden1.com (Jim Grubs, W8GRT) writes:

>> Our licenses are lifetime, too. It's the *station* license that costs \$26 >> per annum.

>I'd be willing to pay \$26 a year if it meant we would get decent service from >the FCC, including vigorous enforcement against non-amateur use of ham bands.

You won't, the service we get from Industry Canada is being minimized and only well documented cases will be handled (much as it is in the US). The \$26CAN/year (~\$17US) is used to cover the beaurocracy to handle licensing IN A TIMELY MANNER, the purchase of equipment to pinpoint the signals of violators, the cost of all well documented cases of police action, administrators that try their best to help the community in the role of an advisor and the salary of the persons answering the phone listening to a bunch of crybabies ...

I think *long* before any licensing fee can add to the service you are currently getting from the FCC must be covered by the fees (which they are not, obviously). I think you may be surprised at just how expensive their operations are and how much of a free ride you are getting, funded by general revenue ... In other words, if you want enforcement, I believe you will need to pay on the order of \$50US/year ...

Date: 10 May 94 16:50:04 GMT

From: agate!howland.reston.ans.net!wupost!waikato!auckland.ac.nz!aukuni.ac.nz!

kiwi!george@ucbvax.berkeley.edu

Subject: Non-existent ham software that should

To: info-hams@ucsd.edu

lwjames@csn.org (Dr. Lawrence James) writes:

:

: We have antenna modelling, Spice, satellite tracking, contest logging, and

: code practice software, but what software could hams use which is either : not available at all, or not available at a reasonable (shareware) price.

The available at all, of hot available at a reasonable (shallewate) price

: There are some of us out here who might write it inspired by your ideas.

:

: KGOGB

: lwjames@csn.org

I have always dreamed of a global radio propagation prediction display mapping software program/package, ideally for the maximum usable frequency (MUF) and lowest usable frequency (LUF), with stepped values in between.

I have used a simple propagation prediction program for about the last 10 years, and have experienced some limitations. I notice the methods of simple graphical displays have not changed much over those 10 years, and probably for many years previous. Each consists of a frequency versus time plot, with MUF and LUF frequencies displayed for each hour of the day (over a 24-hour period).

The global display would appear very similar to a worldwide weather map, or a barometric pressure map, or a relative humidity map, or a topographic altitude (relief) map - as each typically consists of semi-random squiggly lines with each line representing a particular value. Colour, line texture and shading are likely visual attractions, and of course the greyline.

In my understanding, propagation predictions are usually limited to a single signal path - one transmitter site and one receiving site, both in geographic co-ordinates. A number of simple prediction plots are often computed and plotted for various periodicals. They are great, and I notice they vary in detail. However they are static, assume mean (or by other predictive means) solar flux or sunspot number and it's sometimes difficult to find a region that's close enough to the location you want to work with. Sometimes you want to look at many regions in one effort - easy when you're looking at separate 2-D plots. What is needed is overlays - like what navigators use on their ocean maps. The more information the eye can take in the better.

A global propagation prediction map display, ideally on a computer, would make use of the latest solar flux (or sunspot number) value, possibly the various popular indices such as the A index and K index. A general relief map for global propagation at that time (ie realtime clock) would be displayed by default. The user should be able to select a transmitter location and, if the user's geographic location is entered/stored, a specific plot for that signal path (ie the short and long paths) would be displayed. A number of different displays would be possible, either merged onto the same map or the map cleared and refreshed with a selected plot. Different frequencies (eg mid band for each band) can be computed globally and displayed. This sort of display would be useful on DXpeditions (except for the computer rf noise/hash:-).

The graphical front-end could be built around an existing propagation prediction program/algorithm. Like building a laboratory robot - build the electronic and mechanic internals first, take off the shelf whatever pre-built technology you can, and then build the front-end body over all that. Rather than writing the front-end first and encounting difficulties with breaks in the algorithm. The global graphical display lines would be incremented geographic co-ordinates, along a given path or in a surface grid. For an incremented frequency plot, a grid scheme would be employed, in this case displaying everywhere over the surface where that frequency propagates. (Think of those barometric pressures lines). None of this should have to require a supercomputer or a specialised work station, ie make use of any standard microcomputer resource for porting of source code to all platforms.

For more advanced programming, the various ionosphere layers, the troposphere (for VHF propagation), and any other atmospheric layers that may be involved, could be displayed also. Surface shading could represent one atmospheric condition or another (eg tropospheric ducting). This would no doubt require a lot more computing time and/or power/hardware. Some of the theory/algorithms to be used may not already imbedded in the original algorithm adapted, so the atmosphere events plots would require some further algorithms.

I got my BASIC algorithm from Radio Netherlands. Radio Sweden International's Sweden Calling DXers department put out a DXers Guide to Computing booklet which may be worth checking ou

I expect the global display, whether it be in 3-D spherical or in Mercator projection form, would bring about a number of technical problems. But if achievable, and nonetheless worth the experimenting with, it might be applied in many scientific field, and hopefully win you an innovative award or two!

The whole idea probably sounds absurd. :-)
But do have a think about it.

Ironically, in terms of the Sun, I have been writing this response while that

annular eclipse of the Sun has been occurring in the U.S. It is an ungodly time of the morning here in New Zealand (after 4am). I've been watching it on CNN.

Good luck if you decide to go ahead with something like this.

Best regards,

George

(George Yuri Muzyka)

Electronics & Computer Technology engineering student,

Polytechnic: Auckland Institute of Technology (AIT)

- -

Voice : 64-9-3789176 (Protocol: yap-yap-yap-yap)

Snail: 33 Vermont Street, Ponsonby, Auckland 1002, New Zealand

Date: Mon, 9 May 1994 14:57:45 GMT

From: emba-news.uvm.edu!griffin.emba.uvm.edu!gdavis@uunet.uu.net

Subject: nude amateur radio nets

To: info-hams@ucsd.edu

What is wrong with you geeks? Haven't you ever wished to join the natives of the Amazon rain forests? What could be more natural?

Naturalists do not like to be gawked at by geeks.

WQ1F/PY4

On my way.....

- -

***** Gary E. Davis**** WQ1F ****

The most common of all follies is to believe passionately in the palpably not true. It is the chief occupation of mankind.-H.L.Mencken

Date: Mon, 9 May 1994 14:24:36 GMT

From: emba-news.uvm.edu!griffin.emba.uvm.edu!gdavis@uunet.uu.net

Subject: Nude Amateur radio nets

To: info-hams@ucsd.edu

Why is it that no one can accept nudism for what it is.

Haven't any of you wished you could live in the South American rain forest without clothes. What else could be more natural.

Naturalits do-not like to be gawked at by geeks!

73... W01F

Heading for the Amazon Rain Forest

W01F/PY3

***** Gary E. Davis**** WQ1F ****

The most common of all follies is to believe passionately in the palpably not true. It is the chief occupation of mankind.-H.L.Mencken

Date: Mon, 9 May 1994 19:41:38 GMT

From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!europa.eng.gtefsd.com! howland.reston.ans.net!cs.utexas.edu!geraldo.cc.utexas.edu!portal.austin.ibm.com!

awdprime.austin.ibm.com!blood@network

Subject: personal autopatch calls

To: info-hams@ucsd.edu

Sounds like just the type of guy I would like to chat with on Ham radio..... You may consider reducing your coffee intake...

Date: 10 May 94 19:05:00 GMT From: news-mail-gateway@ucsd.edu

Subject: RS SW wanted To: info-hams@ucsd.edu

Greetings! After moving across the country and losing net access, I'm finally

back! (Apologies to the person I was going

to buy the filter from, my access got cut sooner than expected and I lost your address). Anyway, I'm working off a listserv

and don't have access to rec.radio.swap so...

Wanted: Shortwave receiver....something along the lines of a Radio Shack DX-440 or DX-390....

Also, can anyone provide detailed info on the foothil hamfests (costs of admission, real time to show up for good deals, etc.)

Thanx

73 de Dave, N9UXU (Keeping the 9 in 6-land)

Date: 9 May 1994 16:01:04 GMT

From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!cyber2.cyberstore.ca!nwnexus!

pt.olympus.net!ptpm000.olympus.net!user@network.ucsd.edu

Subject: Slow speed CW net?

To: info-hams@ucsd.edu

Last night on 40 meters I heard a reference to a slow speed CW net but I didn't get the time or frequency. Does anybody know?

Thanks

- -

philkeys@pt.olympus.net (Phil Keys) KB7WXQ
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA (206) 379-8650

Date: 10 May 94 17:57:24 GMT

From: agate!howland.reston.ans.net!cs.utexas.edu!geraldo.cc.utexas.edu!

doc.cc.utexas.edu!not-for-mail@ucbvax.berkeley.edu

Subject: WANTED IC-1275 To: info-hams@ucsd.edu

Goodday all..Im looking for a clean IC-1275. Will Pay nice price for one! Turn that black box into green stuff.

Thanks, Bob AA5PB

Date: 10 May 94 12:41:14 GMT

From: agate!spool.mu.edu!uwm.edu!post.its.mcw.edu!not-for-mail@ucbvax.berkeley.edu

Subject: Willful Interference

To: info-hams@ucsd.edu

In my community two of the local repeaters has been plagued by an individual or individuals who is causing willful interference with others by constantly kerchuncking the repeater and also using DTMF tones when others are on the air. This appears to be a willful attempt to disrupt communications. I am looking for any insights that people may have regarding the psychopathology of people who engage in this behavior. Any insights or experience that people on the net have had with these individuals would be most welcome. When

people have been caught were they well known and what was the motivation?	
Michael J. Malloy Medical College of Wisconsin Milwaukee, Wisconsin	Amateur Radio N9WJV Compuserve 70334,3563 Internet mmjjmm@post.its.mcw.edu
Date: 10 May 1994 15:03:40 GMT From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net! europa.eng.gtefsd.com!news.umbc.edu!eff!blanket.mitre.org!linus.mitre.org!cyclone! jgersic@network.ucsd.edu To: info-hams@ucsd.edu	
References <1994May4.192129.9784@lgc.com>, <gradycpjnwy.buu@netcom.com>, <1994May10.085514.2324@hnrc.tufts.edu>news Subject : Re: Amateur Radio and Civil Rights</gradycpjnwy.buu@netcom.com>	
I have to look it up, but a civialian has the right to receive whatever frequency they wish. There is a freedom of airwaves law that is around, wish I knew it off the top of my head. Unless they admended that too, should be able to receive whatever frequency, et. 800mgz, etc.	
Fear is a horrible weapon to fight, but knowledge conquers all * NRA LIFE MEMBER / limit the government, enpower the people. John A. Gersic (c) copyright, my original opinions, no one elses'. PH: 703/883-1209 The Mitre Corporation: jgersic@mitre.org	

End of Info-Hams Digest V94 #509 **********